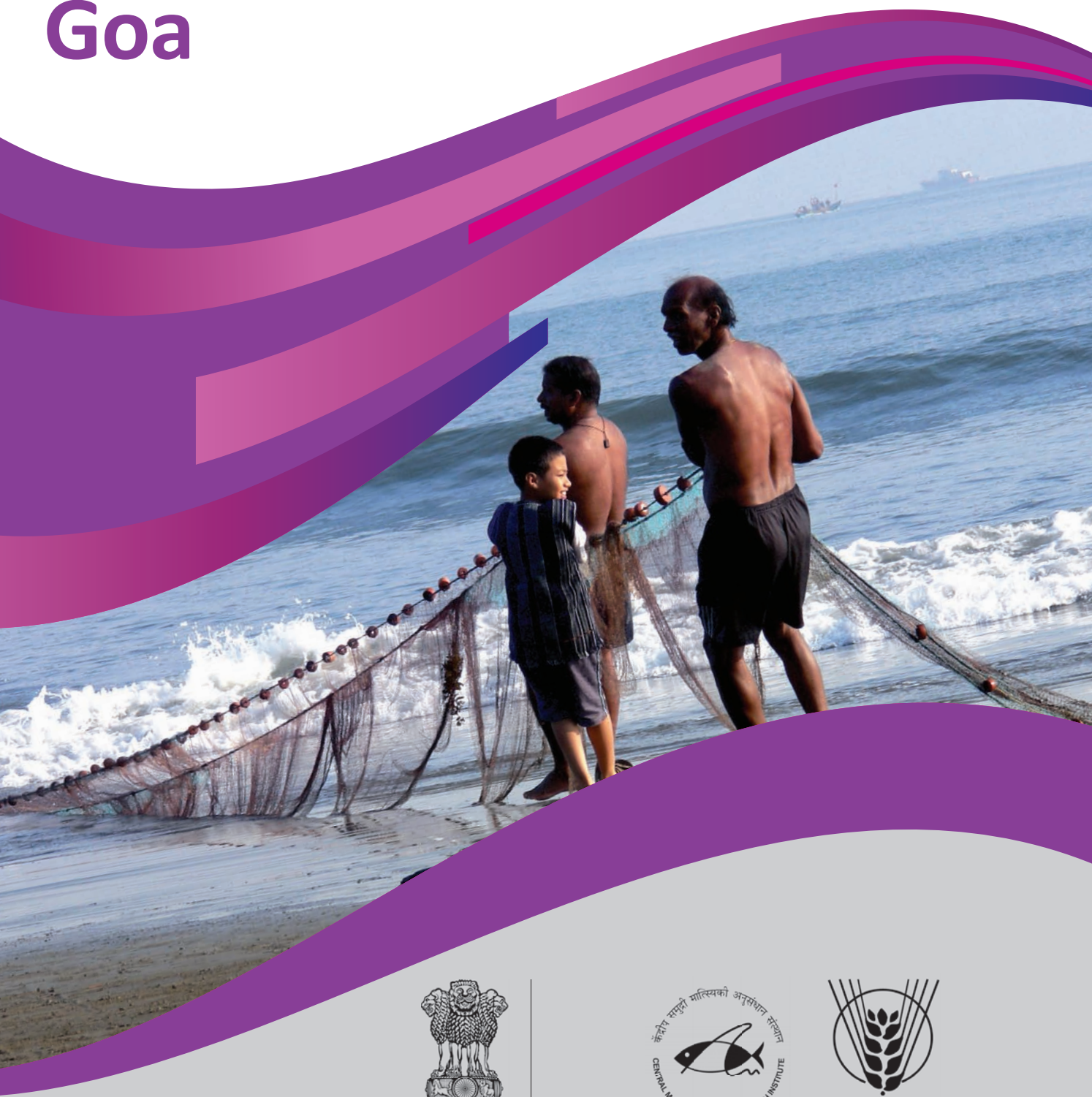


Marine Fisheries Census 2010 Goa



Department of Animal Husbandry, Dairying & Fisheries
Ministry of Agriculture, Government of India, New Delhi



Central Marine Fisheries Research Institute, Kochi
Indian Council of Agricultural Research, New Delhi



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PART II

8

Marine Fisheries Census 2010

Goa



Government of India
Ministry of Agriculture
Department of Animal Husbandry, Dairying & Fisheries
Krishi Bhavan, New Delhi



Central Marine Fisheries Research Institute, Kochi
(Indian Council of Agricultural Research, New Delhi)



PREFACE



Marine fishery resources are renewable and limited, therefore management of the harvest of marine fishery resources is necessary for sustained production from the sea. Towards this, it is very much essential to have reliable and updated knowledgebase on status of marine fishery resources, fishing effort expended, number of fishing villages, number of landing centres, fisherfolk population, their educational status, occupational status, infrastructure facilities existing in fishing villages, fishing crafts, fishing gears etc. For generating such information the Central Marine Fisheries Research Institute (CMFRI), Cochin has been periodically conducting frame surveys. The first marine fisheries census was conducted by CMFRI in 1980 with the support of Ministry of Agriculture. Second marine fisheries census on all India basis was conducted during 2005. Dynamic changes have taken place in the fishery and there were many management interventions introduced by the state and central governments from time to time. Changes have also taken place in the crafts and gear, fisherfolk population structure, availability of resources and their spread, infrastructure facilities, educational status etc.

In view of the dynamic nature of the marine fisheries sector, the policies and interventions need to be reviewed periodically. Reliable updated real time data on different aspects of marine fisheries is very much essential for developing suitable policies and interventions. The Department of Animal Husbandry Dairying and Fisheries (DAHDF), Ministry of Agriculture, Government of India during the 11th five year plan has taken up a central sector scheme on “Strengthening of database and Geographical Information System for fisheries sector” with Census on Marine Fisheries as one of the components which was assigned to CMFRI for the second time, considering the expertise and experience in conducting the massive census on all India basis.

The list of marine fishing villages for the different maritime states and union territories formed the frame for the census, was updated with the most recent information received from the respective state fisheries departments. This information was validated by conducting a pre-census survey. In addition to the task of selection of enumerators for the conduct of census operation, information on number of households in each village was also collected during the pre-census survey. The necessary schedules for collection of information from marine fishermen households were developed by conducting a series of workshops at CMFRI headquarters, regional and research centers. The data collection schedules so developed was approved by the Technical Monitoring Committee set up by the DAHDF. Workshops and trainings were also conducted at different locations for the field level supervisors and enumerators regarding the filling up of different schedules. Instructions were also prepared and distributed to field level supervisors and enumerators on each item of entry in the schedules. The census was carried out through 2,074 enumerators in 3,288 marine fishing villages and information from 8,64,550 households were collected. The entire operation was carried out under the supervision at different levels by the scientists and technical staff of CMFRI. The schedules used for enumeration were bilingual, both in English and local language.

The final report is in two parts, Part I with information at national level and the Part II is for each maritime state. The scope, time frame, parameters, definitions, type of schedules etc. are also described in Part I. This document is a consolidated report for the Union Territory of Goa, covering 39 marine fishing villages along the two coastal districts, which provides districtwise information on marine fishing villages, fish landing centres, population structure, educational status, socio-economic profile, occupation together with the ownership pattern of crafts and gears among fisherfolk. It is also intended to provide a summary of the crafts in the fishery and the infrastructure facilities available in the marine fishing villages in the state.

It is my pleasure to use this opportunity to thank the DAHDF and the Indian Council of Agricultural Research (ICAR) for having trust in CMFRI in its ability to take up the arduous task of carrying out the National Marine Fishery Census 2010. At this juncture I take the opportunity to thank the DAHDF for accepting the CMFRI national marine fisheries data (after reconciliation with states) as the official data of Government of India. I thank the state fisheries department for extending all the supports for the successful conduct of census. The sincere and hard work carried out by Fishery Resource Assessment Division staff of CMFRI need special mention and I thank each one of them. Special thanks are due for all the scientific, technical and administrative staff who were involved in one way or other in the conduct of census. Finally, appreciations also go to Dr. K. K. Philipose, Scientist-in-Charge, Karwar Research Centre for the support and help rendered in completing this program successfully. I am sure that this report will be of enormous use to all associated with the development of marine fisheries.



(G. Syda Rao)

CMFRI
Kochi

Director, CMFRI & National Co-ordinator,
National Marine Fisheries Census, 2010.

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SUMMARY

Marine Fisheries Census 2010 was carried out in two coastal districts of Goa namely, South Goa and North Goa during April-May, 2010. The scope, time frame, and terms used are described in Part I of the Marine Fisheries Census Report. The significant features are summarized below:

Fishing villages and landing centres

- There are 39 marine fishing villages spread along the Goa coast with 23 villages in South Goa and 16 in North Goa.
- The total number of fish landing centres was 33, of which 20 belonged to South Goa and 13 belonged to North Goa.

Population

- There were 2,189 fishermen families in the state, with a population of 10,545. The number of families in South Goa and North Goa were 1,388 and 801 respectively.
- South Goa accounted for 64% of the total fisherfolk population in Goa.
- Among 2,189 fishermen families, 98% were traditional fishermen.
- The average number of families in a village was 56, with 270 persons per village. The average family size was 4.8.
- In Goa, 79% of the population was adults, of which 41% was constituted by males and 38% by females.
- Women formed 48% of the population and the female to male ratio was 925 females for 1000 males. This ratio was 930 in South Goa and 916 in North Goa district.

Poverty

- There were 489 fishermen families below poverty line.
- The largest proportion of families below poverty line was found in South Goa (31%).

Education

- In Goa, 86% of fisherfolk (excluding children below 5 years) were educated with different levels of education.
- About 30% of the fisherfolk had primary level of education, 45% had secondary, 11% had above secondary level of education and the rest 14% of the population was unschooled.

Occupation

- There were 2,370 active fishermen of whom 1,505 were fulltime fishermen and 865 were part-time.
- About 48% of fisherfolk excluding children, were occupied with active fishing (29%) and fishing allied activities (19%).
- There were 1,601 fisherfolk engaged in fishing allied activities of whom 93% were associated with marketing of fish and about 7% were engaged in making/repairing net.
- Women outweighed men in fishing allied activities accounting about 90%. Among the fishing allied activities women dominated in marketing (96%). Maximum number of fisherfolk engaged in fishing allied activities belonged to South Goa (63%).
- About 64% of those engaged in marketing of fish belonged to South Goa, whereas 55% of those involved in making/repairing net belonged to North Goa.
- The fisherfolk in Goa was neither engaged in curing/processing nor in peeling activities.

Religion

- In Goa, majority of the families were Hindus (65%), followed by Christians (34%) and Muslims constituted the rest (1%). There were no fishermen families in SC/ST category.

Membership in co-operatives

- 18% of the adult fisherfolk were having membership in co-operative societies of which 97% were in fisheries co-operative societies.

Craft in the fishery

- There were 2,666 crafts in the fishery of which 1,142 were mechanized, 1,297 motorized and non-motorized formed the rest.
- Trawlers (73%) and purse seiners (26%) were the main crafts in the mechanized sector.
- Of the total 834 trawlers in Goa, 67% belonged to South Goa.
- Mechanized gillnetters were observed only in South Goa.

Craft/Gear owned by the fisherfolk

- There were 1,902 craft owned by fisherfolk, of which 631 were mechanized, 584 motorized and the rest non-motorized.
- Trawlers accounted for 65% of the mechanized craft owned by fisherfolk, followed by purseseiners (33%).
- Important gears owned by fisherfolk were gillnets, trawlnets, castnets and seines.

Infrastructure

- In Goa, 99% of the fishermen houses were pucca houses.
- There were 93 primary schools, 47 secondary schools, 8 colleges and 6 technical institutions in the fishing villages of Goa.
- All the fishing villages were electrified, 95% had bus stop/stand and 79% of the fishing villages had cell phone coverage.
- There were 4 ice factories and only one boat yard located in Goa.

DISTRICTWISE TABLES

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TABLE 1. DISTRICT PROFILE

District	Landing centres	Fishing villages	Fishermen families	Traditional fishermen families	BPL families	Fisherfolk population
South Goa	20	23	1,388	1,363	429	6,721
North Goa	13	16	801	784	60	3,824
Total	33	39	2,189	2,147	489	10,545

TABLE 2. POPULATION DISTRIBUTION STRUCTURE

District	Male		Female			Total	Average family size	Sex ratio (females per 1000 males)	
	Adult	Children		Adult	Children				
		Upto 5 yrs	Above 5 yrs		Upto 5 yrs	Above 5 yrs			
South Goa	2,732	285	465	2,562	248	429	6,721	4.84	930
North Goa	1,560	150	286	1,425	130	273	3,824	4.77	916
Total	4,292	435	751	3,987	378	702	10,545	4.82	925

TABLE 3. EDUCATIONAL STATUS

District	Primary		Higher Secondary		Above Higher Secondary		Unschoolled*	
	Male	Female	Male	Female	Male	Female	Male	Female
South Goa	923	938	1,657	1,317	344	271	273	465
North Goa	506	514	788	628	277	202	275	354
Total	1,429	1,452	2,445	1,945	621	473	548	819

* Children below 5 years excluded

TABLE 4. ACTIVE FISHERFOLK

District	Actual fishing		Fish seed collection						Total
	Full time	Part time	Full time		Part time		Total		
			Male	Female	Male	Female			
South Goa	980	615	0	0	0	0	1,595		
North Goa	525	250	0	0	0	0	775		
Total	1,505	865	0	0	0	0	2,370		

TABLE 5. OCCUPATION PROFILE

District	Active fishermen	No. of members involved in fishing allied activities						Other than fishing	Total occupied
		Marketing of fish	Making/ Repairing Net	Curing/ Processing	Peeling	Labourer	Others		
South Goa	1,595	953	53	0	0	0	0	792	3,393
North Goa	775	528	64	0	0	3	0	338	1,708
Total	2,370	1,481	117	0	0	3	0	1,130	5,101

TABLE 6. GENDER-WISE FISHING ALLIED ACTIVITIES

District	Marketing of fish		Making/ Repairing Net		Curing/ Processing		Peeling		Labourer		Others	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
South Goa	29	924	53	0	0	0	0	0	0	0	0	0
North Goa	25	503	64	0	0	0	0	0	0	3	0	0
Total	54	1,427	117	0	0	0	0	0	0	3	0	0

TABLE 7. RELIGION AND COMMUNITY (NO. OF FAMILIES)

District	Religion			Total	Community SC/ST
	Hinduism	Islam	Christianity		
South Goa	986	16	386	1,388	0
North Goa	449	0	352	801	0
Total	1,435	16	738	2,189	0

TABLE 8. MEMBERSHIP IN CO-OPERATIVES

District	Members in		
	Fisheries co-operatives	Other co-operatives	Total
South Goa	1,268	41	1,309
North Goa	147	5	152
Total	1,415	46	1,461

TABLE 9. FISHERMEN FAMILIES ENGAGED IN AQUACULTURE

District	Acquired training
South Goa	41
North Goa	16
Total	57

TABLE 10. LIFE SAVING EQUIPMENTS & ELECTRONIC EQUIPMENTS (NO. OF FAMILIES)

District	Life saving equipment	Electronic /Communication gadgets		
		Mobile phone	GPS	Others
South Goa	49	548	56	106
North Goa	110	189	268	178
Total	159	737	324	284

TABLE 11. FISHING CRAFT IN THE FISHERY

District	Trawlers	Gillnetters	Purse-seiners	Total Mechanized	Motorized	Non-motorized	Total
South Goa	556	12	201	769	708	126	1,603
North Goa	278	0	95	373	589	101	1,063
Total	834	12	296	1,142	1,297	227	2,666

**TABLE 12. CRAFT OWNED BY FISHERFOLK
(100% OWNERSHIP)**

Type	South Goa	North Goa	Total
MECHANIZED			
Trawler	245	165	410
Gillnetter	12	0	12
Pursesainer	117	92	209
OUTBOARD			
Dugout canoe	0	32	32
Plank built boat	269	180	449
Fibre glass boat	57	46	103
NON-MOTORIZED			
Dugout canoe	57	45	102
Plank built boat	476	109	585

**TABLE 13. FAMILIES HAVING <100%
OWNERSHIP OF FISHING CRAFT**

Type	South Goa	North Goa	Total
Mechanized			
Trawler	0	2	2
Outboard			
Plank built boat	3	9	12
Fibre glass boat	1	0	1
Teppa	0	2	2
Others	1	2	3

TABLE 14. FISHING GEAR OWNED BY FISHERFOLK (100% OWNERSHIP)

Type	South Goa	North Goa	Total
Trawl/net	361	193	554
Gillnet	773	436	1,209
Driftnet	183	36	219
Ringseine	48	41	89
Purse seine	133	94	227
Shore seine	222	41	263
Castnet	331	80	411
Traps	2	4	6

TABLE 15. FISHING GEAR OWNED BY FISHERFOLK (<100% OWNERSHIP)

Type	South Goa	North Goa	Total
Gillnet	2	4	6
Shoreseine	2	7	9
Castnet	2	0	2

TABLE 16. INFRASTRUCTURE - HOUSING & EDUCATION (IN THE VILLAGES)

District	No. of villages	No. of Families	Housing		Education			
			Kutcha houses	Pucca houses	Primary	Secondary	College	Technical Institutions
South Goa	23	1,388	13	1,375	41	19	3	5
North Goa	16	801	2	799	52	28	5	1
Total	39	2,189	15	2,174	93	47	8	6

TABLE 17. INFRASTRUCTURE / FACILITIES (IN THE VILLAGES)

District	No. of fishing villages	Villages having								Number of			
		Electricity	Bus stop/stand	Hospitals	Police station	Post offices	Mob.phone coverage	Internet facility	Banks	Fisheries Co-operative Societies	Other Co-operative Societies	Community centers	Cinema theatres
South Goa	23	23	22	8	5	9	17	15	24	6	21	32	2
North Goa	16	16	15	13	6	13	14	14	27	5	21	29	0
Total	39	39	37	21	11	22	31	29	51	11	42	61	2
													3,254
													2,787
													467

**TABLE 18. INFRASTRUCTURE - FISHERY
RELATED (IN THE VILLAGES)**

District	Boat yards	Ice factories
South Goa	1	3
North Goa	0	1
Total	1	4

VILLAGEWISE TABLES

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TABLE 1. VILLAGE SUMMARY

Sl No.	Name of the village	Fishermen families	Traditional fishermen families	BPL families	Fisherfolk population
DISTRICT : SOUTH GOA					
TALUK :MARMAGOA					
1	Vasco-Da-Gama	45	45	0	262
2	Baina	71	69	0	421
3	Bogmalo	23	15	0	109
4	Velsao	66	66	0	348
TALUK : SALCETE					
5	Ambelim	37	37	0	201
6	Cotbona	24	24	0	119
7	Betul (Bapsora)	149	149	12	761
8	Colva	33	33	0	185
9	Benaulim	107	107	0	507
10	Varca	17	17	0	89
11	Cavelossim	18	18	0	70
TALUK : QUEPEM					
12	Betul (Tariwada)	51	51	6	260

TABLE 1. Contd.

Sl No.	Name of the village	Fishermen families	Traditional fishermen families	BPL families	Fisherfolk population
TALUK : CANACONA					
13	Nuvem Khola	30	30	12	131
14	Matvem Khola	22	22	20	98
15	Saleri	150	135	113	677
16	Agonda	153	153	81	677
17	Palolem	137	137	67	612
18	Colomb	51	51	18	241
19	Patnem	32	32	11	137
20	Kindli-Bag	74	74	28	315
21	Talpona	45	45	35	222
22	Galgibag	33	33	20	192
23	Polem	20	20	6	87
SOUTH GOA TOTAL		1388	1363	429	6721
DISTRICT : NORTH GOA					
TALUK : PERNEM					
1	Querim	36	36	10	160
2	Harmal	105	105	0	474

TABLE 1. Contd.

Sl No.	Name of the village	Fishermen families	Traditional fishermen families	BPL families	Fisherfolk population
3	Mandrem	7	7	0	37
4	Morjim	125	125	20	570
5	Chopdem	39	39	0	163
TALUK : BARDEZ					
6	Shivolim	103	97	8	350
7	Chapora	66	59	4	369
8	Calangute	30	30	1	148
9	Candolim	8	8	0	40
10	Nerul	82	78	17	379
TALUK : TISWADI					
11	Caranzalem	20	20	0	100
12	Dona-Paula	20	20	0	98
13	Nauxi	19	19	0	86
14	Odxel	26	26	0	155
15	Siridona	90	90	0	548
16	Agassaim	25	25	0	147
NORTH GOA TOTAL		801	784	60	3824
GOA TOTAL		2189	2147	489	10545

TABLE 2. POPULATION DISTRIBUTION STRUCTURE

Sl No.	Name of the village	Male		Female		Total	Average family size	Sex ratio (females per 1000 males)		
		Adult	Children		Adult				Children	
			Upto 5 yrs	Above 5 yrs					Upto 5 yrs	Above 5 yrs
DISTRICT : SOUTH GOA										
TALUK :MARMAGOA										
1	Vasco-Da-Gama	112	4	14	94	15	23	262	5.82	1015
2	Baina	169	20	47	137	15	33	421	5.93	784
3	Bogmalo	54	1	2	47	2	3	109	4.74	912
4	Velsao	158	14	27	124	9	16	348	5.27	749
TALUK : SALCETE										
5	Ambelim	77	12	15	76	10	11	201	5.43	933
6	Cotbona	53	6	8	39	3	10	119	4.96	776
7	Betul (Bapsora)	294	43	63	280	27	54	761	5.11	903
8	Colva	84	1	13	70	6	11	185	5.61	888
9	Benaulim	219	16	22	202	28	20	507	4.74	973
10	Varca	38	4	1	33	4	9	89	5.24	1070
11	Cavelossim	39	0	1	29	0	1	70	3.89	750
TALUK : QUEPEM										
12	Betul (Tariwada)	101	9	18	99	8	25	260	5.10	1031

TABLE 2. Contd.

Sl No.	Name of the village	Male				Female				Total	Average family size	Sex ratio (females per 1000 males)
		Adult		Children		Adult		Children				
		Upto 5 yrs	Above 5 yrs	Upto 5 yrs	Above 5 yrs	Upto 5 yrs	Above 5 yrs	Upto 5 yrs	Above 5 yrs			
TALUK : CANACONA												
13	Nuvem Khola	56	2	10	47	8	8	131	4.37	926		
14	Matvem Khola	38	2	7	32	6	13	98	4.45	1085		
15	Saleri	272	25	54	262	20	44	677	4.51	929		
16	Agonda	259	23	44	285	20	46	677	4.42	1077		
17	Palolem	244	38	30	242	30	28	612	4.47	962		
18	Colomb	95	12	23	90	8	13	241	4.73	854		
19	Patnem	52	10	12	53	1	9	137	4.28	851		
20	Kindli-Bag	122	16	24	124	7	22	315	4.26	944		
21	Talpona	90	11	9	90	12	10	222	4.93	1018		
22	Galgibag	69	13	16	72	5	17	192	5.82	959		
23	Polem	37	3	5	35	4	3	87	4.35	933		
SOUTH GOA TOTAL		2732	285	465	2562	248	429	6721	4.84	930		
DISTRICT : NORTH GOA												
TALUK : PERNEM												
1	Querim	63	3	7	69	12	6	160	4.44	1192		

TABLE 2. Contd.

SI No.	Name of the village	Male				Female				Average family size	Sex ratio (females per 1000 males)
		Adult	Children		Adult	Children		Total			
			Upto 5 yrs	Above 5 yrs		Upto 5 yrs	Above 5 yrs				
2	Harmal	205	17	21	194	16	21	474	4.51	951	
3	Mandrem	18	2	1	13	0	3	37	5.29	762	
4	Morjim	243	16	17	243	27	24	570	4.56	1065	
5	Chopdem	63	3	13	72	2	10	163	4.18	1063	
TALUK :BARDEZ											
6	Shivolim	108	5	73	103	5	56	350	3.40	882	
7	Chapora	165	19	30	123	17	15	369	5.59	724	
8	Calangute	61	12	3	56	7	9	148	4.93	947	
9	Candolim	22	4	0	13	0	1	40	5.00	538	
10	Nerul	153	22	23	133	24	24	379	4.62	914	
TALUK :TISWADI											
11	Caranzalem	45	0	5	39	1	10	100	5.00	1000	
12	Dona-Paula	41	2	9	38	1	7	98	4.90	885	
13	Nauxi	38	0	6	33	0	9	86	4.53	955	
14	Odxel	64	5	10	54	5	17	155	5.96	962	
15	Siridona	214	34	53	186	11	50	548	6.09	821	

TABLE 2. Contd.

SI No.	Name of the village	Male		Female		Total	Average family size	Sex ratio (females per 1000 males)
		Adult	Children	Adult	Children			
			Upto 5 yrs		Upto 5 yrs			
16	Agassaim	57	6	56	2	11	5.88	885
NORTH GOA TOTAL		1560	150	1425	130	273	4.77	916
GOA TOTAL		4292	435	3987	378	702	4.82	925

TABLE 3. EDUCATIONAL STATUS

SI No.	Name of the village	Primary		Higher Secondary		Above Higher Secondary	
		Male	Female	Male	Female	Male	Female
DISTRICT : SOUTH GOA							
TALUK :MARMAGOA							
1	Vasco-Da-Gama	36	40	65	54	20	12
2	Baina	80	58	117	92	6	3
3	Bogmalo	13	5	20	18	17	10
4	Velsao	57	50	101	60	15	14
TALUK : SALCETE							
5	Ambelim	22	31	57	35	11	17
6	Cotbona	11	15	41	21	9	10
7	Betul (Bapsora)	86	102	239	185	26	24
8	Colva	29	26	50	48	17	4
9	Benaulim	58	73	121	80	46	38
10	Varca	14	14	20	16	3	8
11	Cavelossim	5	4	12	8	15	8
TALUK : QUEPEM							
12	Betul (Tariwada)	27	56	79	55	7	6
TALUK : CANACONA							
13	Nuvem Khola	24	19	30	20	7	2

TABLE 3. Contd.

SI No.	Name of the village	Primary		Higher Secondary		Above Higher Secondary	
		Male	Female	Male	Female	Male	Female
14	Matvem Khola	20	30	15	12	5	1
15	Saleri	81	64	172	145	22	30
16	Agonda	73	110	180	166	11	17
17	Palolem	78	73	135	104	26	16
18	Colomb	63	31	34	36	10	4
19	Patnem	30	16	22	27	10	7
20	Kindli-Bag	63	58	51	44	6	2
21	Talpona	35	25	37	42	17	6
22	Galgibag	14	25	32	30	33	29
23	Polem	4	13	27	19	5	3
SOUTH GOA TOTAL		923	938	1657	1317	344	271
DISTRICT : NORTH GOA							
TALUK : PERNEM							
1	Querim	16	24	35	35	14	7
2	Harmal	54	66	115	101	40	30
3	Mandrem	1	3	13	11	4	2
4	Morjim	63	81	127	118	53	33

TABLE 3. Contd.

Sl No.	Name of the village	Primary		Higher Secondary		Above Higher Secondary	
		Male	Female	Male	Female	Male	Female
5	Chopdem	23	21	38	47	15	11
TALUK :BARDEZ							
6	Shivolim	61	53	57	41	17	12
7	Chapora	45	33	67	22	30	17
8	Calangute	28	28	22	20	9	4
9	Candolim	5	2	9	6	4	0
10	Nerul	48	38	83	64	5	12
TALUK :TISWADI							
11	Caranzalem	0	1	19	19	6	2
12	Dona-Paula	25	21	22	17	2	7
13	Nauxi	7	9	13	14	0	4
14	Odxel	21	24	33	23	10	11
15	Siridona	90	97	106	73	53	41
16	Agassaim	19	13	29	17	15	9
NORTH GOA TOTAL		506	514	788	628	277	202
GOA TOTAL		1429	1452	2445	1945	621	473

TABLE 4. ACTIVE FISHERFOLK

Sl No.	Name of the village	Actual fishing		Fish seed collection				Total
		Full time	Part time	Full time		Part time		
				Male	Female	Male	Female	
DISTRICT : SOUTH GOA								
TALUK : MARMAGOA								
1	Vasco-Da-Gama	46	12	0	0	0	0	58
2	Baina	70	4	0	0	0	0	74
3	Bogmalo	22	11	0	0	0	0	33
4	Velsao	65	15	0	0	0	0	80
TALUK : SALCETE								
5	Ambelim	34	17	0	0	0	0	51
6	Cotbona	3	29	0	0	0	0	32
7	Betul (Bapsora)	120	108	0	0	0	0	228
8	Colva	26	9	0	0	0	0	35
9	Benaulim	51	28	0	0	0	0	79
10	Varca	10	11	0	0	0	0	21
11	Cavelossim	19	7	0	0	0	0	26
TALUK : QUEPEM								
12	Betul (Tariwada)	44	28	0	0	0	0	72

TABLE 4. Contd.

Sl No.	Name of the village	Actual fishing		Fish seed collection						Total
		Full time	Part time	Full time		Part time				
				Male	Female	Male	Female			
TALUK : CANACONA										
13	Nuvem Khola	6	20	0	0	0	0	0	0	26
14	Matvem Khola	7	20	0	0	0	0	0	0	27
15	Saleri	68	91	0	0	0	0	0	0	159
16	Agonda	49	69	0	0	0	0	0	0	118
17	Palolem	106	78	0	0	0	0	0	0	184
18	Colomb	44	13	0	0	0	0	0	0	57
19	Patnem	34	4	0	0	0	0	0	0	38
20	Kindli-Bag	63	3	0	0	0	0	0	0	66
21	Talpona	47	7	0	0	0	0	0	0	54
22	Galgibag	35	18	0	0	0	0	0	0	53
23	Polem	11	13	0	0	0	0	0	0	24
SOUTH GOA TOTAL		980	615	0	0	0	0	0	0	1595
DISTRICT : NORTH GOA										
TALUK : PERNEM										
1	Querim	5	12	0	0	0	0	0	0	17
2	Harmal	61	13	0	0	0	0	0	0	74

TABLE 4. Contd.

Sl No.	Name of the village	Actual fishing		Fish seed collection				Total
		Full time	Part time	Full time		Part time		
				Male	Female	Male	Female	
3	Mandrem	5	2	0	0	0	0	7
4	Morjim	82	21	0	0	0	0	103
5	Chopdem	6	14	0	0	0	0	20
TALUK :BARDEZ								
6	Shivolim	11	32	0	0	0	0	43
7	Chapora	31	34	0	0	0	0	65
8	Calangute	30	0	0	0	0	0	30
9	Candolim	6	11	0	0	0	0	17
10	Nerul	79	62	0	0	0	0	141
TALUK :TISWADI								
11	Caranzalem	19	2	0	0	0	0	21
12	Dona-Paula	22	8	0	0	0	0	30
13	Nauxi	19	7	0	0	0	0	26
14	Odxel	29	0	0	0	0	0	29
15	Siridona	97	24	0	0	0	0	121

TABLE 4. Contd.

Sl No.	Name of the village	Actual fishing		Fish seed collection				Total
		Full time	Part time	Full time		Part time		
				Male	Female	Male	Female	
16	Agassaim	23	8	0	0	0	0	31
NORTH GOA TOTAL		525	250	0	0	0	0	775
GOA TOTAL		1505	865	0	0	0	0	2370

TABLE 5. OCCUPATION PROFILE

SI No.	Name of the village	Active fishermen	No. of members involved in fishing allied activities							Other than fishing	Total occupied	
			Marketing of fish	Making/Repairing Net	Curing/Processing	Peeling	Labourer	Others				
DISTRICT : SOUTH GOA												
TALUK :MARMAGOA												
1	Vasco-Da-Gama	58	34	0	0	0	0	0	0	24	116	
2	Baina	74	51	0	0	0	0	0	0	35	160	
3	Bogmalo	33	21	0	0	0	0	0	0	20	74	
4	Velsao	80	62	0	0	0	0	0	0	25	167	
TALUK : SANCETE												
5	Ambelim	51	33	1	0	0	0	0	0	9	94	
6	Cotbona	32	14	0	0	0	0	0	0	18	64	
7	Betul (Bapsora)	228	110	0	0	0	0	0	0	83	421	
8	Colva	35	24	0	0	0	0	0	0	22	81	
9	Benaulim	79	65	0	0	0	0	0	0	104	248	
10	Varca	21	9	0	0	0	0	0	0	14	44	
11	Cavelossim	26	6	2	0	0	0	0	0	15	49	
TALUK : QUEPEM												
12	Betul (Tariwada)	72	51	0	0	0	0	0	0	37	160	
TALUK : CANACONA												
13	Nuvm Khola	26	11	2	0	0	0	0	0	14	53	

TABLE 5. Contd.

SI No.	Name of the village	Active fishermen	No. of members involved in fishing allied activities							Total occupied
			Marketing of fish	Making/Repairing Net	Curing/Processing	Peeling	Labourer	Others	Other than fishing	
14	Matvem Khola	27	20	1	0	0	0	0	20	68
15	Saleri	159	83	45	0	0	0	0	39	326
16	Agonda	118	81	0	0	0	0	0	147	346
17	Palolem	184	110	0	0	0	0	0	100	394
18	Colomb	57	29	1	0	0	0	0	3	90
19	Patnem	38	15	1	0	0	0	0	6	60
20	Kindli-Bag	66	40	0	0	0	0	0	5	111
21	Talpona	54	38	0	0	0	0	0	15	107
22	Galgibag	53	36	0	0	0	0	0	24	113
23	Polem	24	10	0	0	0	0	0	13	47
SOUTH GOA TOTAL			1595	953	53	0	0	0	792	3393
DISTRICT : NORTH GOA										
TALUK : PERNEM										
1	Querim	17	12	0	0	0	0	0	14	43
2	Harmal	74	70	0	0	0	0	0	7	151
3	Mandrem	7	7	0	0	0	0	0	3	17

TABLE 5. Contd.

SI No.	Name of the village	Active fishermen	No. of members involved in fishing allied activities							Other than fishing	Total occupied
			Marketing of fish	Making/Repairing Net	Curing/Processing	Peeling	Labourer	Others			
4	Morjim	103	76	0	0	0	0	0	0	54	233
5	Chopdem	20	11	0	0	0	0	0	0	10	41
TALUK : BARDEZ											
6	Shivolim	43	40	8	0	0	0	0	0	66	157
7	Chapora	65	22	28	0	0	0	0	0	56	171
8	Calangute	30	22	17	0	0	0	0	0	8	77
9	Candolim	17	9	0	0	0	0	0	0	1	27
10	Nerul	141	69	6	0	0	0	3	0	49	268
TALUK : TISWADI											
11	Caranzalem	21	22	2	0	0	0	0	0	3	48
12	Dona-Paula	30	17	0	0	0	0	0	0	4	51
13	Nauxi	26	20	0	0	0	0	0	0	4	50
14	Odxel	29	30	0	0	0	0	0	0	0	59
15	Siridona	121	83	3	0	0	0	0	0	45	252

TABLE 5. Contd.

SI No.	Name of the village	No.of members involved in fishing allied activities								Total occupied
		Active fishermen	Marketing of fish	Making/Repairing Net	Curing/Processing	Peeling	Labourer	Others	Other than fishing	
16	Agassaim	31	18	0	0	0	0	0	14	63
NORTH GOA TOTAL		775	528	64	0	0	3	0	338	1708
GOA TOTAL		2370	1481	117	0	0	3	0	1130	5101

TABLE 6. GENDER-WISE FISHING ALLIED ACTIVITIES

SI No.	Name of the village	Marketing of fish		Making/Repairing Net		Curing/Processing		Peeling		Labourer		Others	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
DISTRICT : SOUTH GOA													
TALUK :MARMAGOA													
1	Vasco-Da-Gama	2	32	0	0	0	0	0	0	0	0	0	0
2	Baina	4	47	0	0	0	0	0	0	0	0	0	0
3	Bogmalo	0	21	0	0	0	0	0	0	0	0	0	0
4	Velsao	1	61	0	0	0	0	0	0	0	0	0	0
TALUK : SALCETE													
5	Ambelim	4	29	1	0	0	0	0	0	0	0	0	0
6	Cotbona	6	8	0	0	0	0	0	0	0	0	0	0
7	Betul (Bapsora)	2	108	0	0	0	0	0	0	0	0	0	0
8	Colva	3	21	0	0	0	0	0	0	0	0	0	0
9	Benaulim	1	64	0	0	0	0	0	0	0	0	0	0
10	Varca	1	8	0	0	0	0	0	0	0	0	0	0
11	Cavellossim	0	6	2	0	0	0	0	0	0	0	0	0
TALUK : QUEPEM													
12	Betul (Tariwada)	0	51	0	0	0	0	0	0	0	0	0	0

TABLE 6. Contd.

SI No.	Name of the village	Marketing of fish		Making/Repairing Net		Curing/Processing		Peeling		Labourer		Others	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
TALUK : CANACONA													
13	Nuvem khola	1	10	2	0	0	0	0	0	0	0	0	0
14	Matvem Khola	0	20	1	0	0	0	0	0	0	0	0	0
15	Saleri	0	83	45	0	0	0	0	0	0	0	0	0
16	Agonda	1	80	0	0	0	0	0	0	0	0	0	0
17	Palolem	0	110	0	0	0	0	0	0	0	0	0	0
18	Colomb	0	29	1	0	0	0	0	0	0	0	0	0
19	Patnem	1	14	1	0	0	0	0	0	0	0	0	0
20	Kindli-Bag	0	40	0	0	0	0	0	0	0	0	0	0
21	Talpona	0	38	0	0	0	0	0	0	0	0	0	0
22	Galgibag	0	36	0	0	0	0	0	0	0	0	0	0
23	Polem	2	8	0	0	0	0	0	0	0	0	0	0
SOUTH GOA TOTAL		29	924	53	0	0	0	0	0	0	0	0	0
DISTRICT : NORTH GOA													
TALUK : PERNEM													
1	Querim	0	12	0	0	0	0	0	0	0	0	0	0
2	Harmal	1	69	0	0	0	0	0	0	0	0	0	0
3	Mandrem	0	7	0	0	0	0	0	0	0	0	0	0

TABLE 6. Contd.

SI No.	Name of the village	Marketing of fish		Making/Repairing Net		Curing/Processing		Peeling		Labourer		Others	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
4	Morjim	0	76	0	0	0	0	0	0	0	0	0	0
5	Chopdem	0	11	0	0	0	0	0	0	0	0	0	0
TALUK :BARDEZ													
6	Shivolim	8	32	8	0	0	0	0	0	0	0	0	0
7	Chapora	8	14	28	0	0	0	0	0	0	0	0	0
8	Calangute	0	22	17	0	0	0	0	0	0	0	0	0
9	Candolim	0	9	0	0	0	0	0	0	0	0	0	0
10	Nerul	0	69	6	0	0	0	0	0	0	3	0	0
TALUK :TISWADI													
11	Caranzalem	2	20	2	0	0	0	0	0	0	0	0	0
12	Dona-Paula	0	17	0	0	0	0	0	0	0	0	0	0
13	Nauxi	1	19	0	0	0	0	0	0	0	0	0	0
14	Odxel	4	26	0	0	0	0	0	0	0	0	0	0
15	Siridona	1	82	3	0	0	0	0	0	0	0	0	0
16	Agassaim	0	18	0	0	0	0	0	0	0	0	0	0
NORTH GOA TOTAL		25	503	64	0	0	0	0	0	0	3	0	0
GOA TOTAL		54	1427	117	0	0	0	0	0	0	3	0	0

TABLE 7. RELIGION AND COMMUNITY (NO. OF FAMILIES)

Sl No.	Name of the village	Religion			Total	Community SC/ST
		Hinduism	Islam	Christianity		
DISTRICT : SOUTH GOA						
TALUK :MARMAGOA						
1	Vasco-Da-Gama	10	0	35	45	0
2	Baina	18	16	37	71	0
3	Bogmalo	3	0	20	23	0
4	Velsao	4	0	62	66	0
TALUK : SALTETE						
5	Ambelim	0	0	37	37	0
6	Cotbona	0	0	24	24	0
7	Betul (Bapsora)	149	0	0	149	0
8	Colva	1	0	32	33	0
9	Benaulim	0	0	107	107	0
10	Varca	0	0	17	17	0
11	Cavelossim	3	0	15	18	0
TALUK : QUEPEM						
12	Betul (Tariwada)	51	0	0	51	0
TALUK : CANACONA						
13	Nuvm Khola	30	0	0	30	0
14	Matvem Khola	22	0	0	22	0
15	Saleri	150	0	0	150	0

TABLE 7. Contd.

SI No.	Name of the village	Religion			Total	Community SC/ST
		Hinduism	Islam	Christianity		
16	Agonda	153	0	0	153	0
17	Palolem	137	0	0	137	0
18	Colomb	51	0	0	51	0
19	Patnem	32	0	0	32	0
20	Kindli-Bag	74	0	0	74	0
21	Talpona	45	0	0	45	0
22	Galgibag	33	0	0	33	0
23	Polem	20	0	0	20	0
SOUTH GOA TOTAL		986	16	386	1388	0
DISTRICT : NORTH GOA						
TALUK : PERNEM						
1	Querim	36	0	0	36	0
2	Harmal	38	0	67	105	0
3	Mandrem	0	0	7	7	0
4	Morjim	87	0	38	125	0
5	Chopdem	39	0	0	39	0
TALUK : BARDEZ						
6	Shivolim	103	0	0	103	0
7	Chapora	66	0	0	66	0
8	Calangute	0	0	30	30	0

TABLE 7. Contd.

Sl No.	Name of the village	Religion			Total	Community SC/ST
		Hinduism	Islam	Christianity		
9	Candolim	0	0	8	8	0
10	Nerul	39	0	43	82	0
TALUK :TISWADI						
11	Caranzalem	0	0	20	20	0
12	Dona-Paula	0	0	20	20	0
13	Nauxi	2	0	17	19	0
14	Odxel	26	0	0	26	0
15	Siridona	13	0	77	90	0
16	Agassaim	0	0	25	25	0
NORTH GOA TOTAL		449	0	352	801	0
GOA TOTAL		1435	16	738	2189	0

TABLE 8. MEMBERSHIP IN CO-OPERATIVES

SI No.	Name of the village	Members in		
		Fisheries co-operatives	Other co-operatives	Total
DISTRICT : SOUTH GOA				
TALUK :MARMAGOA				
1	Vasco-Da-Gama	48	0	48
2	Baina	74	0	74
3	Bogmalo	27	0	27
4	Velsao	69	0	69
TALUK : SALTETE				
5	Ambelim	29	0	29
6	Cotbona	33	0	33
7	Betul (Bapsora)	82	0	82
8	Colva	33	2	35
9	Benaulim	104	0	104
10	Varca	19	0	19
11	Cavelossim	20	0	20
TALUK : QUEPEM				
12	Betul (Tariwada)	19	0	19

TABLE 8. Contd.

SI No.	Name of the village	Members in		
		Fisheries co-operatives	Other co-operatives	Total
TALUK : CANACONA				
13	Nuvem Khola	0	0	0
14	Matvem Khola	0	39	39
15	Saleri	212	0	212
16	Agonda	0	0	0
17	Palolem	152	0	152
18	Colomb	50	0	50
19	Patnem	35	0	35
20	Kindli-Bag	86	0	86
21	Talpona	63	0	63
22	Galgibag	78	0	78
23	Polem	35	0	35
SOUTH GOA TOTAL		1268	41	1309
DISTRICT : NORTH GOA				
TALUK : PERNEM				
1	Querim	0	0	0
2	Harmal	8	1	9

TABLE 8. Contd.

SI No.	Name of the village	Members in			Total
		Fisheries co-operatives	Other co-operatives		
3	Mandrem	0	0	0	0
4	Morjim	13	1		14
5	Chopdem	0	0		0
TALUK : BARDEZ					
6	Shivolim	26	0		26
7	Chapora	26	0		26
8	Calangute	18	0		18
9	Candolim	4	0		4
10	Nerul	14	3		17
TALUK : TISWADI					
11	Caranzalem	19	0		19
12	Dona-Paula	0	0		0
13	Nauxi	0	0		0
14	Odxel	0	0		0
15	Siridona	6	0		6

TABLE 8. Contd.

SI No.	Name of the village	Members in			Total
		Fisheries co-operatives	Other co-operatives		
16	Agassaim	13	0		13
NORTH GOA TOTAL		147	5		152
GOA TOTAL		1415	46		1461

TABLE 9. CRAFT OWNED BY FISHERFOLK (FULL OWNERSHIP)

SI No.	Name of the village	Mechanized	Outboard	Non-motorized
DISTRICT : SOUTH GOA				
TALUK : MARMAGOA				
1	Vasco-Da-Gama	22	20	56
2	Baina	66	57	14
3	Bogmalo	4	29	3
4	Velsao	82	45	0
TALUK : SALCETE				
5	Ambelim	7	1	38
6	Cotbona	13	0	12
7	Betul (Bapsora)	55	8	94
8	Colva	28	6	4
9	Benaulim	30	10	18
10	Varca	10	1	5
11	Cavelossim	7	2	17
TALUK : QUEPEM				
12	Betul (Tariwada)	11	8	42
TALUK : CANACONA				
13	Nuvm Khola	2	1	11

TABLE 9. Contd.

Sl No.	Name of the village	Mechanized	Outboard	Non-motorized
14	Matvem Khola	3	0	16
15	Saleri	0	38	45
16	Agonda	3	23	39
17	Palolem	3	40	26
18	Colomb	3	19	17
19	Patnem	0	2	9
20	Kindli-Bag	1	11	23
21	Talpona	16	1	15
22	Galgibag	0	3	22
23	Polem	8	1	7
SOUTH GOA TOTAL		374	326	533
DISTRICT : NORTH GOA				
TALUK : PERNEM				
1	Querim	0	0	9
2	Harmal	5	40	0
3	Mandrem	0	8	0
4	Morjim	10	39	25
5	Chopdem	0	0	7

TABLE 9. Contd.

SI No.	Name of the village	Mechanized	Outboard	Non-motorized
TALUK : BARDEZ				
6	Shivolim	0	1	36
7	Chapora	11	12	23
8	Calangute	16	14	0
9	Candolim	0	17	1
10	Nerul	115	8	14
TALUK : TISWADI				
11	Caranzalem	6	3	17
12	Dona-Paula	27	14	0
13	Nauxi	10	6	0
14	Odxel	3	26	0
15	Siridona	42	50	16
16	Agassaim	12	20	6
NORTH GOA TOTAL		257	258	154
GOA TOTAL		631	584	687

TABLE 10. FISHING CRAFT IN THE FISHERY

Sl No.	Name of the landing centre	Trawlers	Gillnetters	Purse-seiners	Total Mechanized	Motorized	Non-motorized	Total
DISTRICT : SOUTH GOA								
1	Vasco-Da-Gama	242	0	93	335	81	0	416
2	Cotbona	299	0	108	407	0	0	407
3	Cansaulim	0	0	0	0	9	3	12
4	Velsao	0	0	0	0	12	4	16
5	Pale	0	0	0	0	123	5	128
6	Bogmalo	0	0	0	0	31	2	33
7	Baina-Bimber	0	0	0	0	128	0	128
8	Talpona	3	12	0	15	21	12	48
9	Patnem / Colomb	0	0	0	0	28	26	54
10	Palolem	0	0	0	0	78	36	114
11	Agonda	0	0	0	0	59	20	79
12	Betul	12	0	0	12	27	0	39
13	Cavellossim	0	0	0	0	6	2	8
14	Orlim / Varca	0	0	0	0	5	2	7
15	Benulim	0	0	0	0	51	4	55
16	Sernabatim	0	0	0	0	8	2	10

TABLE 10. Contd.

Sl No.	Name of the landing centre	Trawlers	Gillnetters	Purse-seiners	Total Mechanized	Motorized	Non-motorized	Total
17	Colva	0	0	0	0	19	2	21
18	Betalbatim	0	0	0	0	12	2	14
19	Mojorda	0	0	0	0	6	2	8
20	Utorda	0	0	0	0	4	2	6
SOUTH GOA TOTAL		556	12	201	769	708	126	1603
DISTRICT : NORTH GOA								
1	Dona-Paula-Ii	0	0	0	0	0	0	0
2	Malim (Panaji)	215	0	95	310	82	0	392
3	Morjim	0	0	0	0	48	12	60
4	Shiridona	0	0	0	0	39	16	55
5	Dona-Paula-I	0	0	0	0	87	28	115
6	Caranzalem	0	0	0	0	31	14	45
7	Nerul	0	0	0	0	90	5	95
8	Candolim	0	0	0	0	20	1	21
9	Calangute	0	0	0	0	60	2	62
10	Baga	0	0	0	0	80	2	82
11	Mandrem	0	0	0	0	6	7	13

TABLE 10. Contd.

Sl No.	Name of the landing centre	Trawlers	Gillnetters	Purse-seiners	Total Mechanized	Motorized	Non-motorized	Total
12	Harmal	0	0	0	0	46	14	60
13	Chapora	63	0	0	63	0	0	63
NORTH GOA TOTAL		278	0	95	373	589	101	1063
GOA TOTAL		834	12	296	1142	1297	227	2666

**LIST OF MARINE FISHING
VILLAGES**

DISTRICT : SOUTH GOA**TALUK : MARMAGOA**

- 1 Vasco-Da-Gama
- 2 Baina
- 3 Bogmalo
- 4 Velsao

TALUK : SALCETE

- 5 Ambelim
- 6 Cotbona
- 7 Betul (Bapsora)
- 8 Colva
- 9 Benaulim
- 10 Varca
- 11 Cavelossim

TALUK : QUEPEM

- 12 Betul (Tariwada)

TALUK : CANACONA

- 13 Nuvem Khola
- 14 Matvem Khola
- 15 Saleri
- 16 Agonda
- 17 Palolem
- 18 Colomb
- 19 Patnem
- 20 Kindli-Bag
- 21 Talpona
- 22 Galgibag
- 23 Polem

DISTRICT : NORTH GOA**TALUK : PERNEM**

- 1 Querim
- 2 Harmal
- 3 Mandrem
- 4 Morjim
- 5 Chopdem

TALUK : BARDEZ

- 6 Shivolim
- 7 Chapora
- 8 Calangute
- 9 Candolim
- 10 Nerul

TALUK : TISWADI

- 11 Caranzalem
- 12 Dona-Paula
- 13 Nauxi
- 14 Odxel
- 15 Siridona
- 16 Agassaim

LIST OF LANDING CENTRES

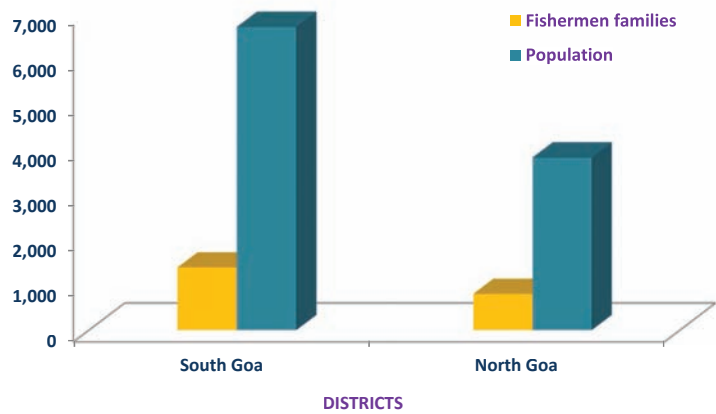
DISTRICT : SOUTH GOA

- 1 Vasco-Da-Gama
- 2 Cotbona
- 3 Cansaulim
- 4 Velsao
- 5 Pale
- 6 Bogmalo
- 7 Baina-Bimber
- 8 Talpona
- 9 Patnem / Colomb
- 10 Palolem
- 11 Agonda
- 12 Betul
- 13 Cavelossim
- 14 Orlim / Varca
- 15 Benulim
- 16 Sernabatim
- 17 Colva
- 18 Betalbatim
- 19 Mojorda
- 20 Utorda

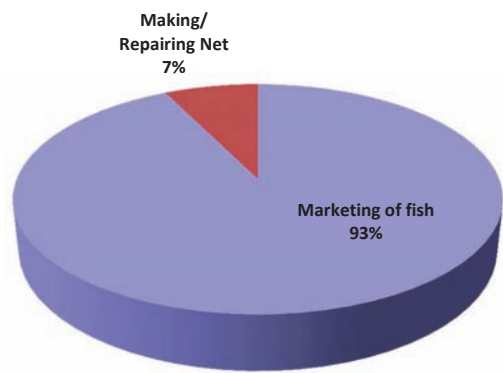
DISTRICT : NORTH GOA

- 1 Dona-Paula-Ii
- 2 Malim (Panaji)
- 3 Morjim
- 4 Shiridona
- 5 Dona-Paula-I
- 6 Caranzalem
- 7 Nerul
- 8 Candolim
- 9 Calangute
- 10 Baga
- 11 Mandrem
- 12 Harmal
- 13 Chapora

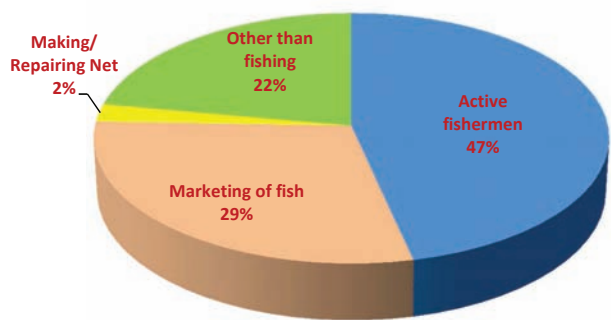
MARINE FISHERFOLK HOUSEHOLDS AND POPULATION



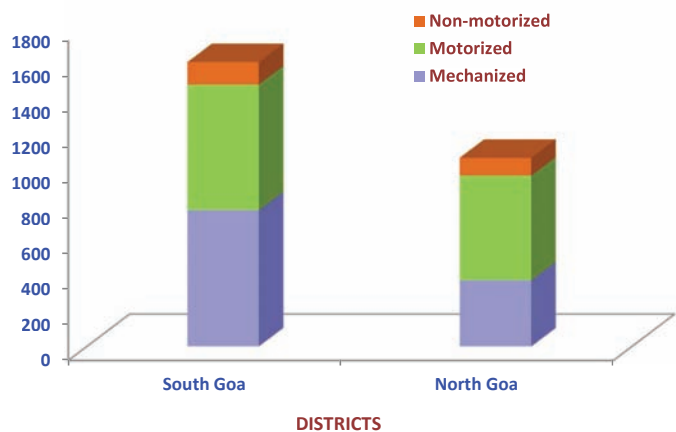
DISTRIBUTION OF FISHING ALLIED ACTIVITIES



DISTRIBUTION OF OCCUPIED FISHERFOLK



FISHING CRAFT IN THE FISHERY





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